



SERVICE MANUAL

Schematic Diagrams



CODE : 270176



Index & Warnings

Opening Instructions	2
Autotest Chart, Block Diagram	3
Power Amplifier & Supply Board	4
Keyboard Contact Boards & Keyboard Interface Board	5
Controls Panel Board	6
Cpu & Sound Generator Board	7
Spare Part List	8

GENERALMUSIC S.p.A. Sales Division: 47048 S.Giovanni in Marignano (RN) ITALY - Via delle Rose, 12 - tel. 0541/959511 - tlx 550555 GMUSIC I - fax 0541/957404



Notice

Service must be carried out by qualified personnel only. Any tampering carried out by unqualified personnel during the guarantee period will forfeit the right to guarantee.

For a correct operation of the instrument, after having switched off, be careful to wait at least 3 seconds before switching on again.

To improve the device's specifications, the schematic diagrams may be subject to change without prior notice.

Schematic Notes

All components marked by this symbol have special safety characteristics, when replacing any of these components use only manufacturer's specified parts.

The (μ) micro symbol of capacitance value is substituted by U. The (Ω) omega symbol of resistance value is substituted by E. The electrolytic capacitors are 25Vdc rated voltage unless otherwise specified. All resistors are 1/8W unless otherwise specified.

← Soldering point.

• Male connector.

⌋ Female connector.

⌋ M/F faston connector.

□ Test point.

⌋ Flag joined with one or more flags with the same signal name inscribed.

↑ Supply voltage.

⌋ Logic supply ground.

⌋ Analog supply ground.

↓ Signal ground.

⌋ Chassis ground.

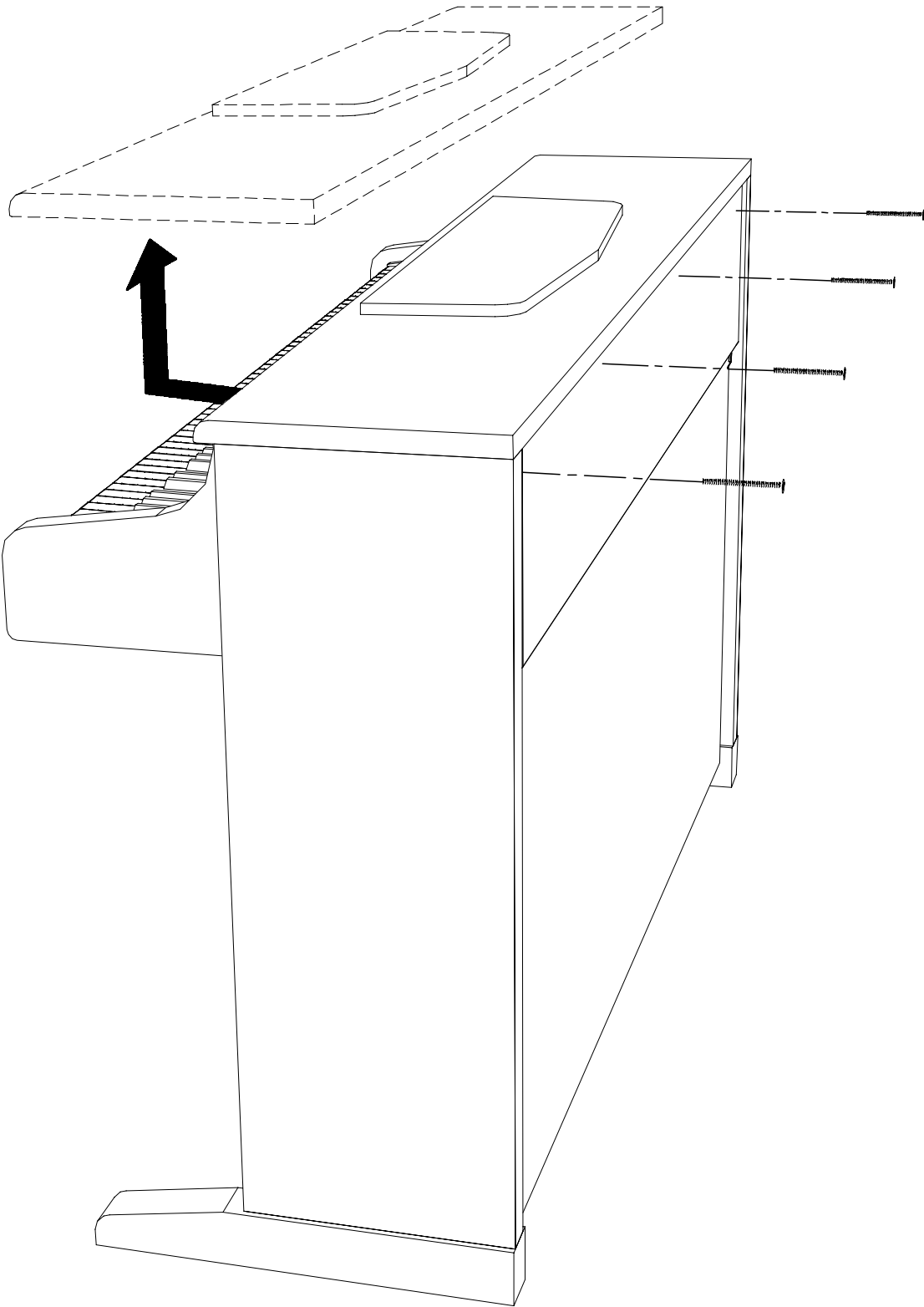


ATTENTION

Observe precautions when handling electrostatic sensitive devices

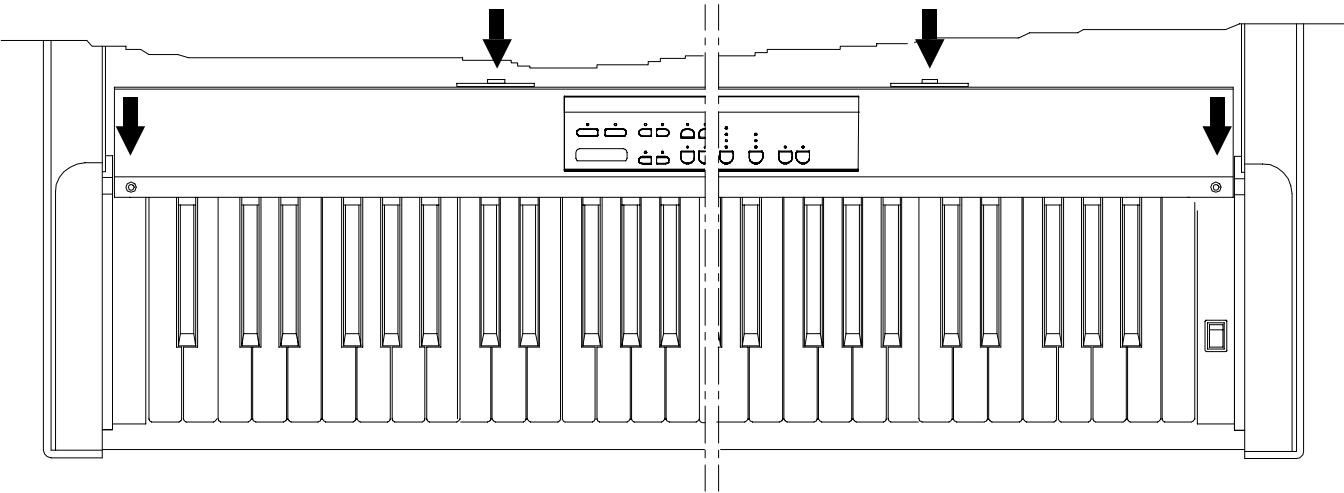
OPENING INSTRUCTIONS

- ① Remove the screws at the rear side.
- ② Move forward and lift the top side as showed below:



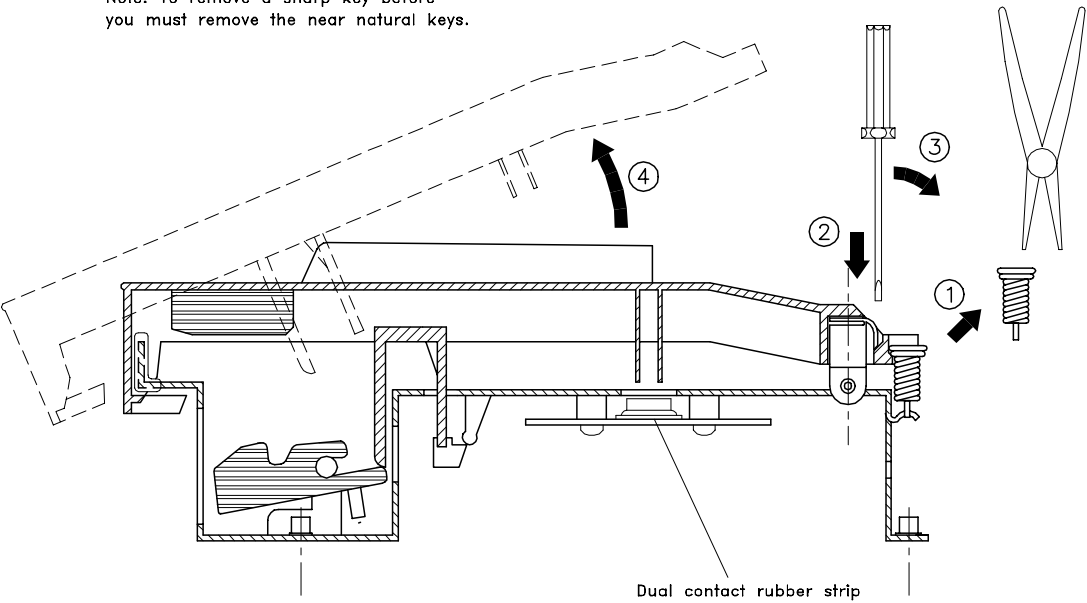
KEYBOARD DISASSEMBLING INSTRUCTIONS

- ① Take off the bar over the keyboard removing the screws shown below:

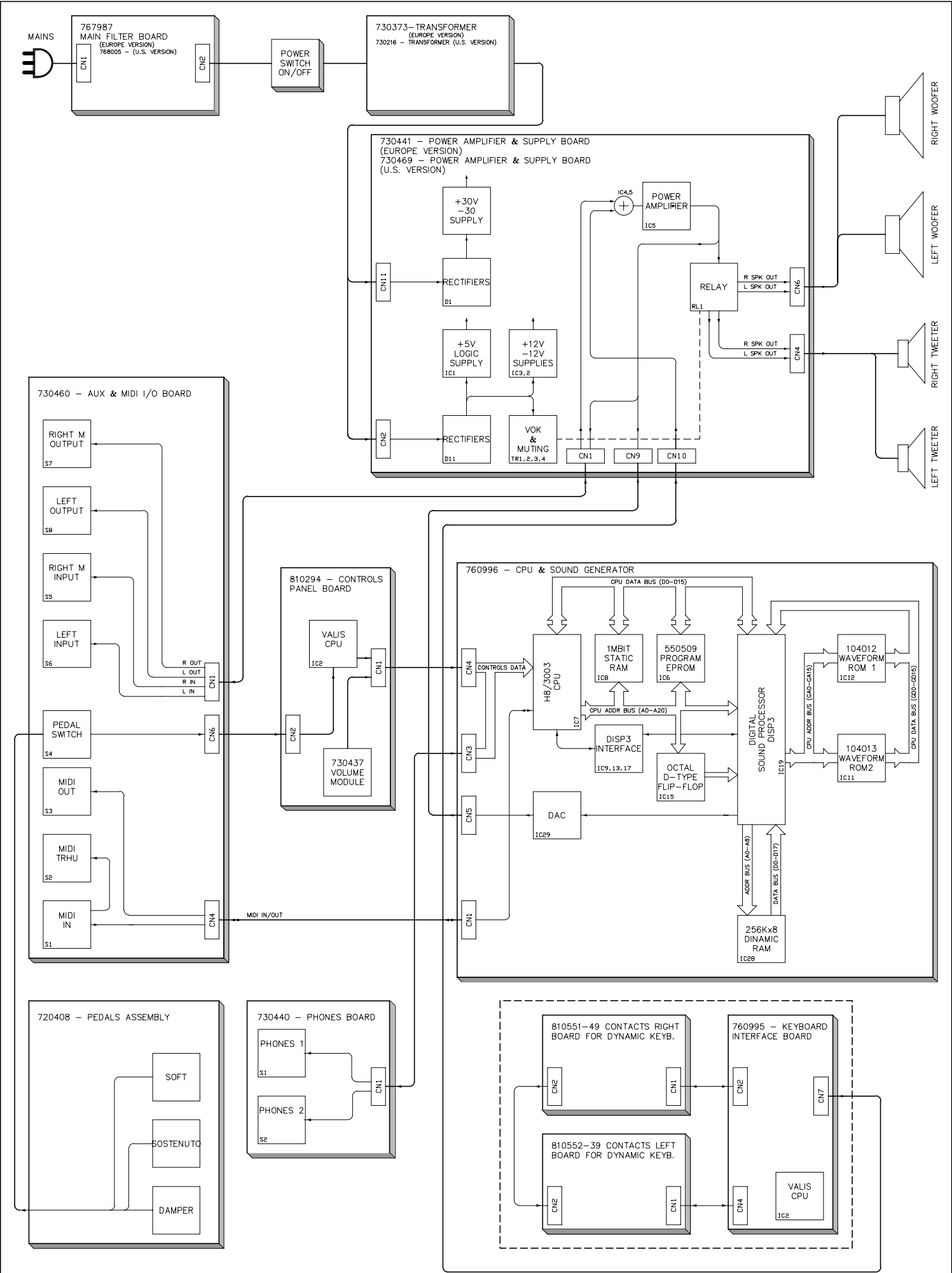


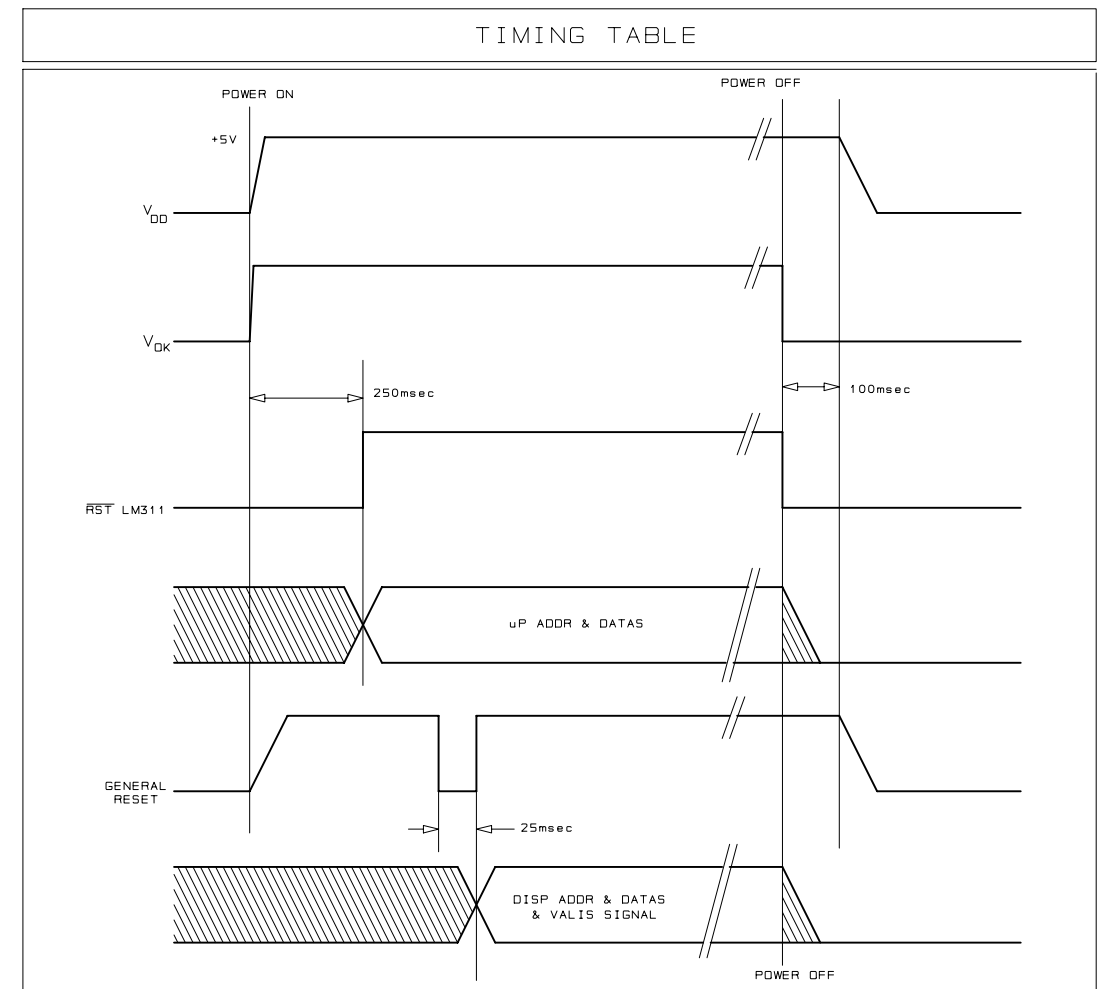
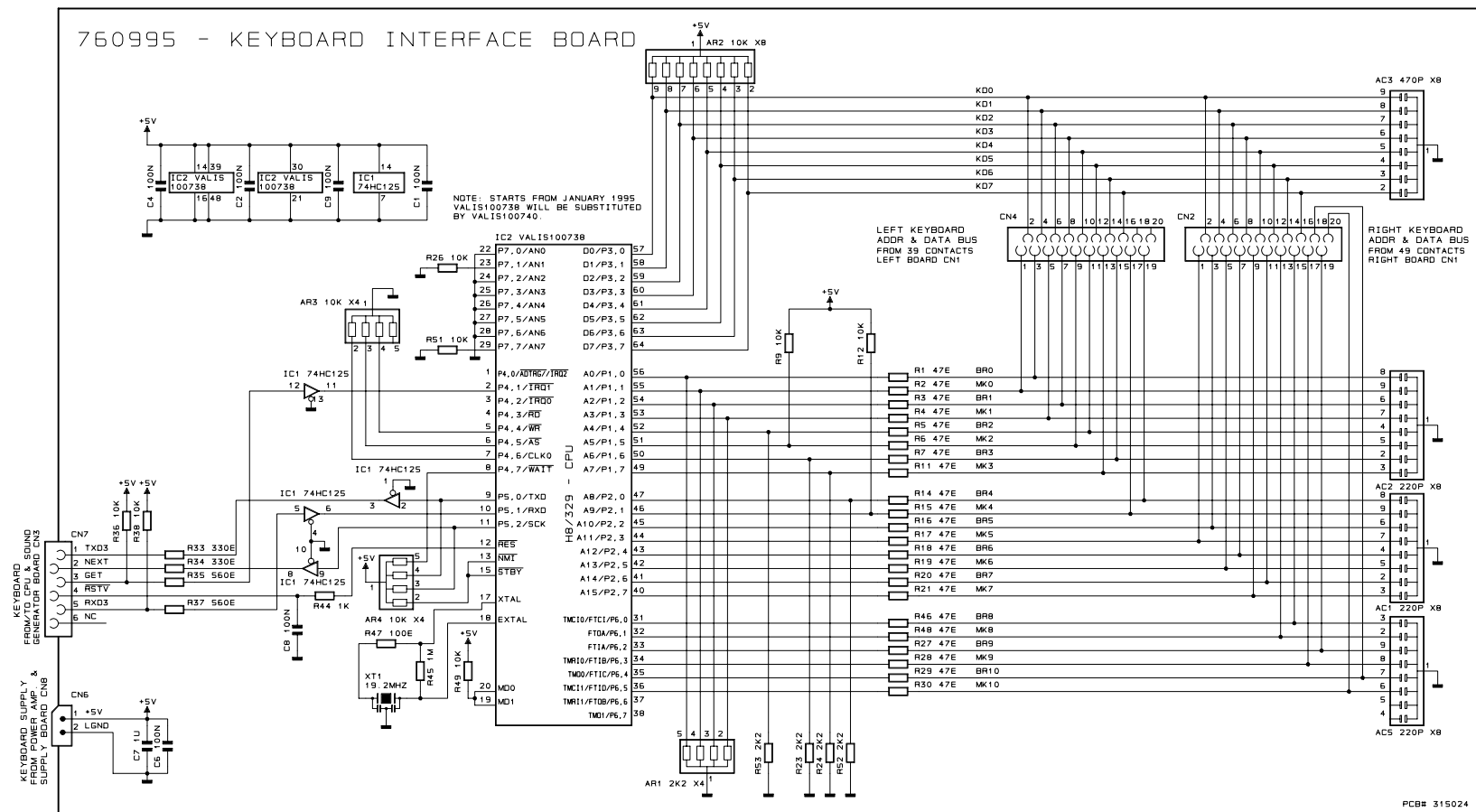
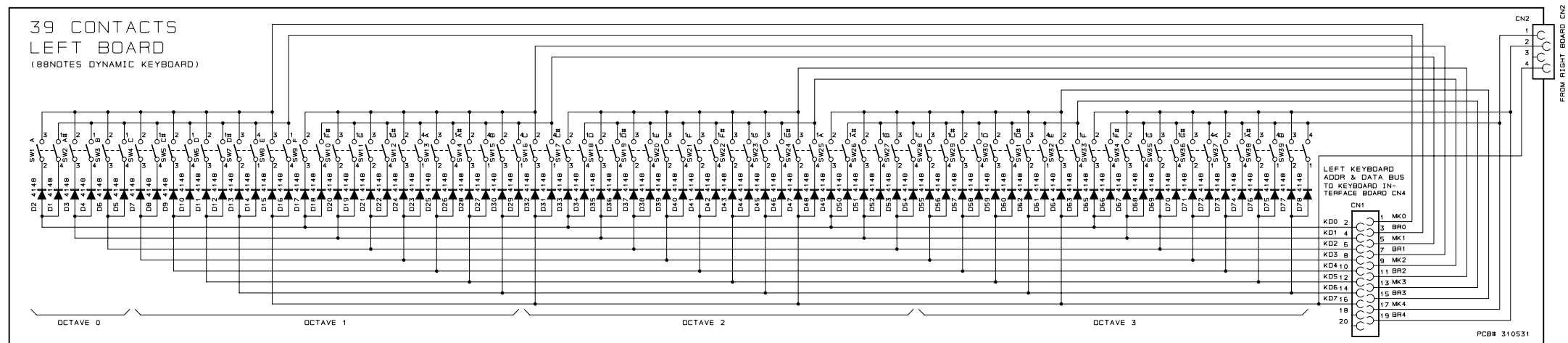
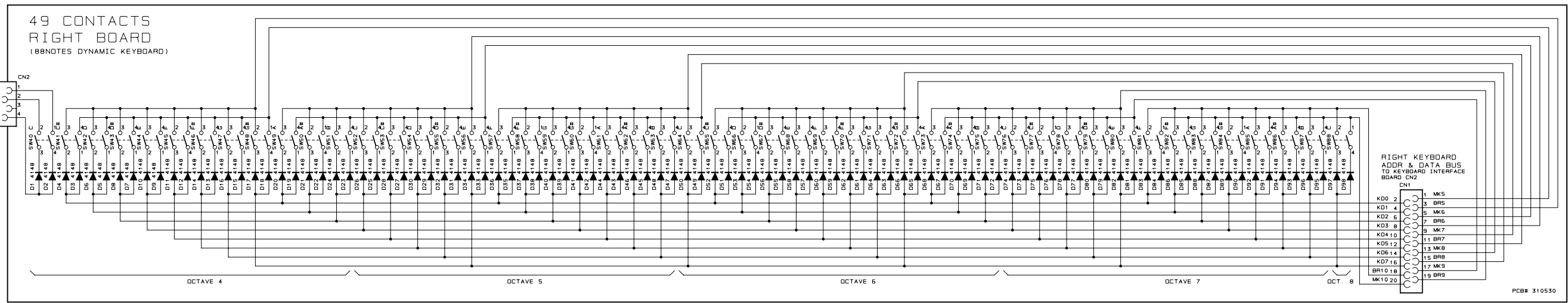
KEY DISASSEMBLING INSTRUCTIONS

- ① Remove the key return spring
- ②③④ Unlock the key applying not much strenght
Note: To remove a sharp key before
you must remove the near natural keys.



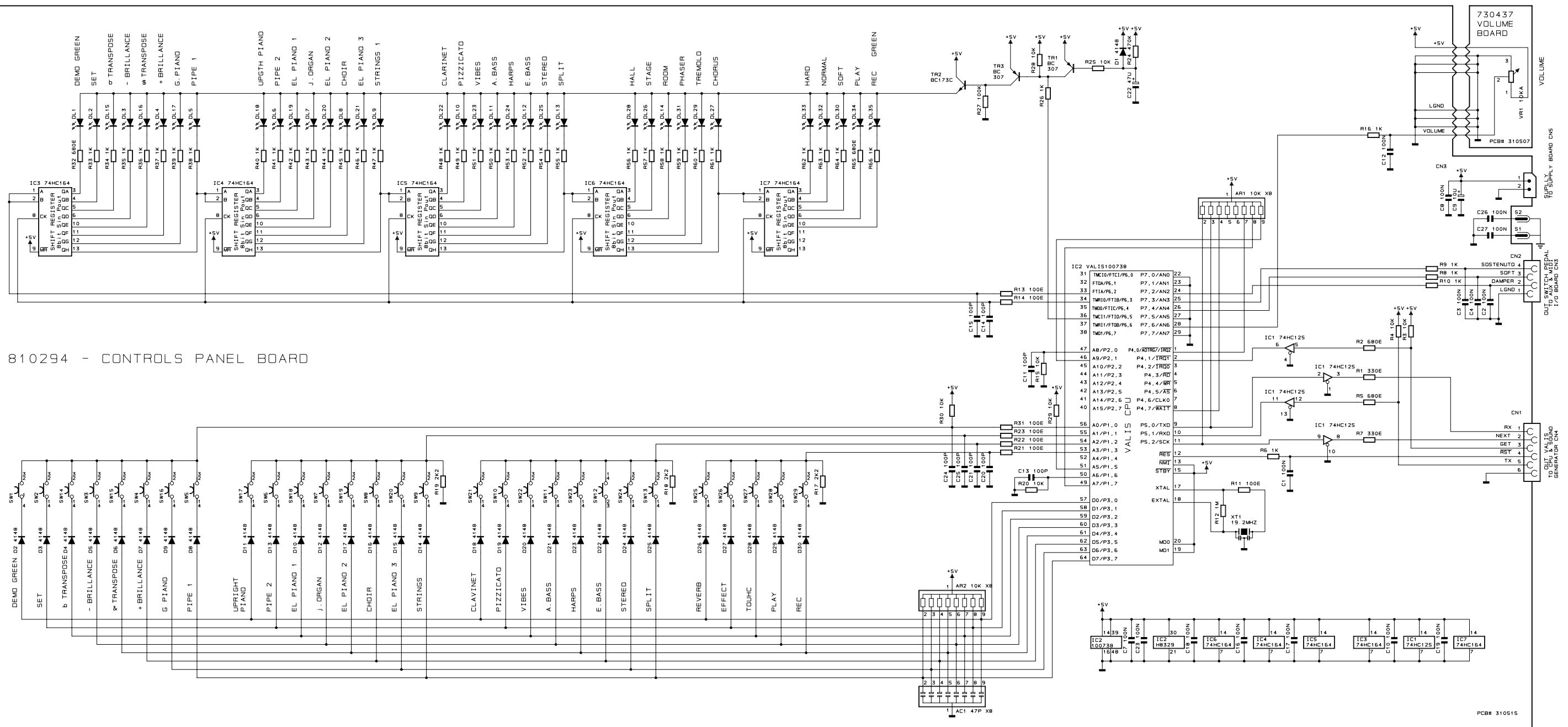
AUTOTEST CHART		
TEST	OPERATIONS	DISPLAY
Start	Turn on instrument while holding pressed "A.S.B." button.	All REVERB and DSP EFFECT leds are flashing.
LED	Press "A.S.B." button.	REVERB-HALL led go on.
	Press "A.S.B." button again	All leds go on.
Buttons	Press "A.S.B." button	Only "A.S.B." button led is on.
	Press all panel buttons one by one except "A.S.B." button	Every button pressed must light coresponding led.
Pedals	Press "A.S.B." button	REVERB-HALL led is on and REVERB-STAGE led is flashing.
	Press left pedal [SOFT]	The first 4 leds starting from PIPE ORGAN button are on with pedal pressed, off with pedal released.
	Press center pedal [SOSTENUTO]	The next 4 leds up to EL.BASS button are on with pedal pressed, off with pedal released.
	Press right pedal [DAMPER]	The 8 leds of presets from CONCERT GRAND to HARPSI progressively go on with increased pedal pressure.
MIDI IN & OUT	Press "A.S.B." button	REVERB-HALL and STAGE leds are on and REVERB ROOM led is flashing.
	Loop the two MIDI connectors with a single MIDI cable.	If a loop is verified all leds from CONCERT GRAND to HARPSI go on. If you disconnect the loop, all leds go off.
Sinus Test	Press "A.S.B." button	All REVERB leds go on and DSP EFFECT PHASER led flashes. A 1000 Hz sinusoidal tone must sound. TRANSPOSE +/- buttons should slightly modify frequency within range 10 - 2756 Hz if pressed and instantly released. Move the VOLUME to set the output level.
		This test signal is useful to check power amplifier and speakers.
Exit	Press "A.S.B." button	DSP EFFECT PHASER led remain on confirming end of test.
Repeat	Press and hold "A.S.B." button until starting display shows.	Autotest starts again.
	Press "A.S.B." button to stop.	The instrument is ready to play.
Note	During autotest, keyboard does not respond and volume level is fixed .	
	The autotest operations can be performed only in the sequence specified above.	
	During test all normal keyboard functions are disabled.	
	At the end of autotest a memory reset takes place. A loud "click" during reset is normal.	



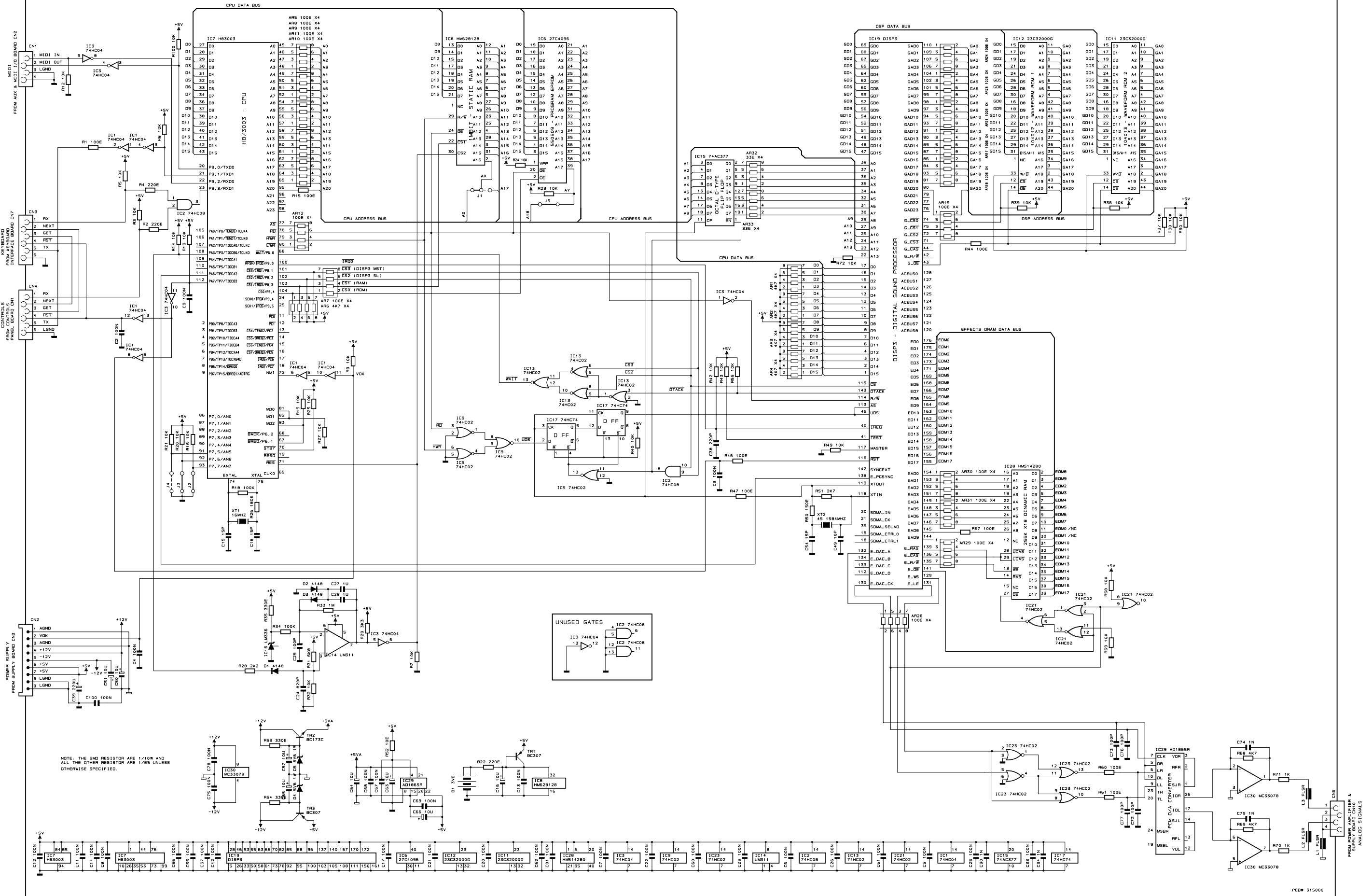


DRW BOCCATO	DWG# 500672	PCB# 310531 310530	GENERALMUSIC S.p.A. ITALY
CKD GIORGI	DSK# 14 PART: 1/1	SCHEMATIC DIAGRAM RP SERIES	ALL RIGHTS ARE RESERVED. NO COPIES
APP. GALANTI	REV: 12/05/95	CONTACTS BOARD & KEYBOARD INTERFACE BOARD	OR REPRODUCE THIS DOCUMENT WITHOUT WRITTEN CONSENT BY GENERALMUSIC.

810294 - CONTROLS PANEL BOARD



760996 - CPU & SOUND GENERATOR BOARD



DRW M. PALANGHI	DWG# 500671	PCB# 315080	GENERALMUSIC S.p.A. ITALY
CXD P. FACCIN	DSK# 0 PART: 1/1	SCHEMATIC DIAGRAM RP1	ALL RIGHTS ARE RESERVED. NO COPIES OR REPRODUCTIONS OF THIS DOCUMENT WITHOUT WRITTEN CONSENT BY GENERALMUSIC.
APP. M. GALANTI	REV: 23/10/95	CPU & SOUND GENERATOR BOARD	

